John R. Marler, M.D.

Current Position

Associate Director for Clinical Trials, Office of the Director, National Institute of Neurological Disorders and Stroke Medical Officer, Senior Level Neurologist Scientific Leader, Clinical Trial Group

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Personal Data

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Place of Birth:	

Education

Bowdoin College, Brunswick, Maine [-----] West Virginia University, Morgantown, WV [----] A.B., Mathematics West Virginia University Medical Center, [------] M.D.

Postgraduate Medical Training

West Virginia University Hospital [----] Medical Internship Mayo Clinic, Rochester, Minnesota [-----] Neurology Residency

Board Certification

Board of Psychiatry and Neurology, November, [---] Certificate #[-----]

Postgraduate Training

- -NINDS IMPACT Leadership Training Program, PDI, 2000-2001
- -Genetic Epidemiology, Cold Spring Harbor, New York, 2000

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- -Molecular Mechanisms of Neurological Disease, Cold Spring Harbor, New York, 2000
- -Neurovascular Ultrasound, Mini-Fellowship, Bowman Gray School of Medicine, 1993
- -Biostatistical Modeling, Johns Hopkins University, 1992
- -Design and Conduct of Clinical Trials, Johns Hopkins University, 1992
- -Basic Biostatistical Inference, Johns Hopkins University, 1991
- -Introduction to Biostatistics, Johns Hopkins University, 1991
- -Carotid Ultrasound, Bowman Gray School of Medicine, 1986
- -Basic Cardiac Life Support, 1987
- -Advanced Cardiac Life Support, 1987
- -Grants Associates Seminar Series, 1985-86
- -NIH Civil Rights Contract Compliance Seminar, 1986
- -Fundamentals of NIH Extramural Activities, 1984
- -STEP Module, Extramural Clinical Trials: Support and Management, 1985
- -Basic Program Officials Guide to Grants and Contracting, 1984
- -IMPAC System: Computers and Data Bases at NIH, 1986

Medial Licensure

State of Maryland Registration #[----]
DEA Registration: #[-----]
Maryland CDS Registration #[-----]

Awards and Honors

Myasthenia Gravis Foundation Medical Student Research Grant. [---]
Medical Student Research Award, West Virginia University, [----]
NIH Director's Award, 1988
NIH Director' Award, 1997
NIH Merit Award 1998
NINDS Merit Award 2001
AHA Special Award in Recognition of Contribution to Stroke by Advocating and Guiding Acute Stroke Research February 7, 2002
AHA William M. Feinberg Award for Excellence in Clinical Stroke

Memberships

American Neurological Association American Academy of Neurology American Society for Experimental Neurotherapeutics Society for Clinical Trials

Scientific Programs and Advisory Committees

American Academy of Neurology, Clinical Research Committee, 1999-2003 Food and Drug Administration Circulatory System Devices Advisory Panel, 2002 7th International Symposium on Thrombolytic Therapy in Acute Stroke, Lyon France, Steering Committee Society for Clinical Trials, Alexandria, Virginia 2002, Program Committee

Scientific Programs and Advisory Committees (cont)

- Cardiovascular Disease Prevention Conference, Member of Planning Group. August 1999.
- Biomarkers and Surrogate Endpoints: Clinical Applications. Member of Planning Committee for this national conference sponsored by NIH and FDA. 1999.
- 6[™] International Symposium on Thrombolytic Therapy in Acute Ischemic Stroke, Member of Program Committee. Sidney, Australia, May 2000.
- 5[™] International Symposium on Thrombolytic Therapy in Acute Ischemic Stroke, Co-Chairman. Natchar Auditorium, April 1998.
- NINDS Representative to the Brain Attack Coalition, 1995-present
- Scientific Program Committee of the International Stroke Conference, 1988-93, Selected abstracts, organized program, choose themes and topics for three day meetings. Acted as moderator for at least one session each year.
- Scientific Advisory Committee, International Symposium on Thrombolytic Therapy in Acute Ischemic Stroke 1988-present.
 - Suggest speakers, select topics, make scientific presentations and act as moderator of a session.
- Neurology Medical Advisory Group, Lilley Research Laboratories, Eli Lilley and Company, 1994-present.
- Parkinson Disease Study Group, Clinical Trials Coordination Center. Advisory Group, July 17, 1997.
- European Cooperative Acute Stroke Study II (ECASS II) Data and Safety Monitoring Committee 1996 to 1999.
- The Clomethiazole Acute Stroke Studies in Ischemic Stroke (CLASS-I, CLASS-H, CLASS-T), Data Monitoring Committee, Chair 1997-2000.
- CHARISMA Data Safety and Monitoring Committee 2002 to 2007

Multicenter Clinical Trial Administration

Administrator for all stroke clinical trials at NINDS. Responsibilities for NIH clinical trial grants and contracts require extensive on-going oversight that includes quarterly scientific review, resource review, human subjects approval, and the establishment of monitoring committees. This oversight requires understanding of methodology and statistical design as well as the management of large multi-institutional organizations. Multi-center randomized controlled linical trials administered include the following grants and contracts:

- -North American Carotid Endarterectomy Trial (NASCET)
- -Asymptomatic Carotid Atherosclerosis Trial (ACAS)
- -Nicardipine for Subarachnoid Hemorrhage Trial (NICSAH)
- -Stroke Prevention in Atrial Fibrillation Trial (SPAF)
- -Trial of Anticoagulants for Acute Stroke (TOAST)
- -Warfarin Aspirin Recurrent Stroke Study (WARSS)
- -Antiphospholipid Antibody Stroke Study (APASS)
- -Women's Estrogen Stroke Trial (WEST)
- -Randomized Trial of Tirilazad For Acute Stroke (RANTTAS)
- -Brain Resuscitation Clinical Trial III (BRCT)
- -African American Antiplatelet Stroke Prevention Trial (AAASPS)
- -Vitamin Intervention in Stroke Prevention (VISP)
- -Warfarin versus Aspirin for Intracranial Arterial Stenosis (WASID)
- -Carotid Revascularization Endarterectomy Stent Trial (CREST)
- -Hypothermia Intracranial Aneurysm Study (IHAST2)
- -Carotid Occlusion Stroke Study (COSS)

Multicenter Clinical Trial Administration (cont.)

- -Warfarin Aspirin in Reduced Ejection Fraction (WARCEF)
- -NINDS TPA Stroke Trial (NINDS)
- In addition to the large multi-center trials listed above, numerous other single center clinical trials and epidemiological studies also require careful monitoring.

Invited Lectures

- University Association for Emergency Medicine, "NIH Funding For Emergency Medicine: Myth or Reality?", 1987
- AHA Seminar on Thrombolytic Therapy and Stroke, 1988 "Early Treatment of Acute Ischemic Stroke"
- Washington Hospital Center, "Investigations of New Therapies in the Treatment of Stroke", 1988
- Sixteenth Princeton Conference. "Clinical Research on Stroke: The NINCDS Strategy", 1988.
- AHA Seminar on Thrombolytic Therapy and Stroke, 1988
- Speaker at NHLBI Hematology Advisory Committee: Thrombosis and Hemostasis Conference: "Stroke and Thrombolytic Therapy", 1989
- Washington Hospital Center: Grand Rounds: "Acute Stroke Treatment," 1989
- Chairman, Breakfast Seminar, Medical and Surgical Management of Acute Intracerebral Hemorrhage at the 15th International Joint Conference on Stroke and Cerebral Circulation, 1990
- Moderator, Challenges in Stroke Prevention Research, NIH Disease Prevention Seminars, 1990
- Fifth Toronto Stroke Workshop, "Clinical Trials in Acute Stroke," 1990.
- Margot Berthold Memorial Lecture in Stroke, University of Virginia, Charlottesville, 1991 International Stroke Society "Clinical Trials with Tissue Plasminogen Activator," Washington, D.C., 1992
- American Heart Association Scientific Sessions: "Thrombolysis and Stroke" November 18, 1992
- Second International Symposium on Thrombolytic Therapy in Acute Ischemic Stroke, "Evaluation of Tissue Plasminogen Activator Early in the Course of Acute Ischemic Stroke', LaJolla, California, 1992.
- "Clinical Trials and Tribulations" Speaker at NIH Staff Training in Extramural Programs (STEP) Two day module at NIH, 1992
- First International Symposium on Thrombolytic Therapy in Acute Ischemic Stroke, "Evaluation of Tissue Plasminogen Activator Early in the Course of Acute Ischemic Stroke", Heidelberg, Germany, 1992
- STEP Forum on "Extramural Issues: Rebuttal letters"; planning committee chairman and forum moderator, 1993.
- 4th International Headache Research Seminar, "Headache Classification and Diagnosis: The NINDS/NIH perspective.", 1993
- Society for Critical Care Medicine, "Novel Therapy in Cerebrovascular Disease and Stroke."
- Second International Neurologic Intensive Care Conference, Committee member "Ischemia and Reperfusion"

- Cambridge Health Institute Conference on New Strategies to Prevent Neural Damage from Ischemic Stroke. "Clinical Trials in Thrombolytic Therapy", 1994
- Society for Clinical Trials. "Global Tests for Clinical Trials with Multiple Outcomes", 1995

Invited Lectures (Continued)

- Science of Brain Disease Symposium, Masur Auditorium, March 18, 1997. "T-PA and the acute treatment of stroke"
- 6[™] European Stroke Conference, Amsterdam, The Netherlands, 28-31 May, 1997. American Academy of Neurology, "Clinical Grant Writing," Session in Breakfast Seminar Course, April 1998.
- 7[™] International Symposium on Pharmacology of Cerebral Ischemia, Marburg, Germany, "Thrombolysis in Stroke Therapy," July 1998.
- 3RD Annual Meeting on Advances in Stroke Management, October 1998, Crete, Greece. "How to determine if a stroke patient is eligible for thrombolysis."
- 8[™] European Stroke Conference, Venice Italy, April 1999. "Evaluation of Patients for Thrombolysis"
- Society for Academic Emergency Physicians, May 1999, Boston, Massachusetts. "State of the Art: Thrombolysis for Acute Stroke. An analysis of the NINDS TPA Stroke Trial Literature."
- Clinical Trials in Neurological Disorders Workshop, June 1999, NINDS Review Branch, Lister Hill Auditorium, Bethesda, MD. "Patient Selection in Clinical Trials."
- American Heart Association Acute Cardiac Life Support (ACLS) Evidence Evaluation Conference, September 1999, Dallas, Texas. "Recommendations for Intra-arterial Thrombolysis for Acute Ischemic Stroke."
- NIH Clinical Trial Interest Group. Natchar Conference Center. 14-September-1999. "Data and Safety Monitoring for NIH Clinical Trials"
- Consiglio Nazionale delle Ricerche, 26 October 1999, Rome, Italy. "Stroke Emergency From Benchmark to Bedside: Experience in the United States"
- Duke University Conference on Neuroprotection in Acute Cerebral Ischemia, Pinehurst, North Carolina, February 26, 2000. "Surrogate Endpoints in Acute Stroke Trials"
- 5th Annual Symposium on Applied Physiology of the Peripheral Circulation, Pittsburgh, Pennsylvania, 10 June, 2000. "Future and Direction of Cerebral Vascular Research"
- Princeton Conference, Redwood City, California, March 12, 2000. "Perspectives and New Horizons in Clinical Trials"
- Neurology-Neurosurgery Grand Rounds, Duke University, 14 June 2000, Durham, North Carolina. "The Development of rt-PA for the Treatment of Acute Ischemic Stroke from Bench to Bedside and Beyond"
- 12th Annual Meeting of the Association of Clinical Pharmacology Units Philadelphia, Pennsylvania, 3 October, 2000. "Role of Experimental Medicine in Decision Making in Drug Development"
- 4th World Stroke Conference, 26 November 2000, Melbourne Convention Center, Melbourne, Australia. "Clinical Trial Design and Interpretation"
- Society for Clinical Trials "Problems in Neuroprotection Trials for Stroke", Denver Colorado, May 2001
- 7th International Symposium on Thrombolysis and Acute Stroke Therapy, Palais des Congres. Lyon, France. 28 May 2002. "Lessons from Stroke Clinical Trials"

9[™] International Symposium on Pharmacology of Cerebral Ischemia, Marburg, Germany, "Thrombolysis in Stroke Therapy," July 2002.

NIH Committees

Staff Training in Extramural Programs Committee (STEP) 1992-1995

NINDS Representative to NIH Project Officers and Program Officials Forum (POPOF) 1988-1994

Member, NIH Staff Roles Working Group, 1993-1995

Conference on Communication Disorders and Stroke in African-American and toher Cultural Groups: Multidisciplinary Perspectives and Research Needs. May 19-20, 1997.

NIMH and OAM Advisory Group on Proposed Clinical Trial of Hypericum perforatum in treating depressive disorder, April 24, 1997.

NINDS Intramural Protocol Implementation Review Committee, member, 1998 to present

NINDS Clinical Research Panel, 1986 to 2001.

NHLBI, NINDS Conference on Decline of Stroke Mortality, planning committee, editorial committee.

NINDS Scientific Advisory Committee to the Director

Editorial Boards

Stroke Neurology (ad hoc)

Health and Health Research Policy

American Heart Association, Special Writing Group of the Stroke Council for Guidelines for the Management of Acute Ischemic Stroke. 1994

AIRENS Vascular Dementia Meeting, Los Angeles, California, 1987

Reviewer, Public Health Service Assessment of Carotid Endarterectomy, Office of Medical Application of Research (OMAR) 1989

Reviewer, Screening for Cerebrovascular Disease, Office of Medical Application of Research (OMAR) 1990

Reviewer, Guide to Clinical Preventive Services, Report of the U.S. Preventive Services Task Force

Co-author, Referral guidelines for overlap between NINDS and National Institute of Communication Disorders

NIH Working Group on Roles in the Review Process

NIH Working Group for Revision of the Project Officers Handbook

Clinical Panel Member, Elective Surgery Algorithm Project, Health Care Financing Administration

Working group on guidelines for Inclusion of Women and Minorities in Study Populations.

Women's Health Initiative Planning Meeting

Institute of Medicine, National Academy of Science Workshop: "Clinical Research and Training: Spotlight on Funding"

NINDS/AIREN International Workshop on Vascular Dementia

PHS Review Committees

- Ad hoc neurological reviewer for AHCPR: PORT applications for evaluation of stroke treatments. 1989
- Ad Hoc neurological reviewer: GOSST Trial of Graves Ophthalmopathy. Dr. Henley, National Eye Institute, SRA, 1989,1991

PHS Review Committees (cont.)

- Ad Hoc reviewer of the responses to the RFP for the Hypericum trial sponsored by OAM and NIMH. 1995
- Neurological Devices Panel, Medical Devices Advisory Committee, Center for Devices and Radiological Health, FDA November 2000 to November 2004.

Advice requested by pharmaceutical industry

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	Use of dextrorphan in acute stroke, 1989, 1993
1	or development of stroke treatments, 1988
[] Development of Tirila:	zad for use in Traumatic Injury and Stroke, 1989,1992
[] Neuroprotection	n and Acute Stroke, 1999
[]] pending, []

Project Management

Sole project officer on 10 NINDS clinical stroke projects involving 30 or more contracts. The duties of the project officer are to manage all scientific and technical aspects of a contract. For the contracts listed below, those responsibilities included writing the scientific portion of the Request for Proposals (RFP), presentations before Contract Review Boards, writing questions for the Best and Final response, writing the statement of work, planning and running meetings to write the protocol, data collection form, coordinating human subjects approval, preparation of a uniform consent form, coordinating data management, analysis, and preparation of the final report.

In five of the contract projects (clinical trial network, heparinoid, vascular dementia, and the two TPA projects), the concept was created and developed by the project officer.

Late Phase I and Phase II Studies of Naloxone in the Treatment of Acute Cerebral Infarction
[] University of Iowa, Dr. Harold Adams
Phase II Studies of Hypervolemic-Hemodilution in the Treatment of Acute Cerebral Ischemia
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[] Phase II Studies of Nicardipine for the Prevention of Vasospasm in Subarachnoid Hemorrhag
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Phase II Studies of Calcium Antagonists in the Treatment of Acute Stroke
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Phase I and Phase II Studies of Heparinoids for Prevention of Progression of Acute Stroke
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-Evaluation of Tissue Plasminogen Activator Early in the Course of Acute Ischemic Stroke

Project Management (cont.)

-Clinical Trial Network. Recently approved for preparation of RFP. This contract will seek to

Computer Experience

NINDS. Wrote and maintained database management system for grants administration used in the Division of Stroke and Trauma since 1985. Original system used DateEase Relational Database. System completely revised in 1994-1995 to work on Microsoft Windows, Microsoft Access, and Microsoft WORD to anticipate NINDS switch to Microsoft NT Network Operating System. New system uses interface with NIH databases that involve FTP, WYLBUR, TSO, and Division of Research Grants Summary Statement Database. Special components of the system are written in Microsoft WordBasic, BASIC, and C++. This system was one of the models upon which development of the current NINDS IMPACT II Scientific Research Project Database was based.

involve practicing physicians in NINDS-sponsored clinical trials.

- West Virginia University and Mayo Clinic. Wrote self-teaching program for neurology residents. 1980-81.
- West Virginia University, Department of Physiology. Assembly language programming for real-time neurophysiology data collection and analysis. 1975-80.
- Mountain Enterprises. Designed and wrote the programs for an interactive drafting-inventory-steel detailing system. 1978-84.
- Martin Marietta Corporation, Denver, Colorado, FORTRAN systems development, engineering liaison, computer graphics. Summers 1963-1965.
- Berea College Student Industries. Established computerized inventory, job costing, work-in-progress. 1970-73.

UCLA Health Sciences Center. FORTRAN programmer BIO-MED Statistics Package, Plotting Routines, 1970.

Previous Employment

- Office of Economic Opportunity, U.S. Government:
 - VISTA, Eastern West Virginia Appalachian Community Organizer, 1968-1970
 - Small Business Development Project, Rockcastle Wood Products, Mount Vernon, Kentucky, Production Manager, 1973
- Berea College Student Industries, Woodcraft Division, Berea, Kentucky, Administrative Assistant, 1970-73
- Mountain Enterprises, Franklin West Virginia, Structural Steel Detailing, Vice President, 1973-1975.
- West Virginia University, Department of Mathematical Statistics, Instructor, one semester, 1975.

Requests for proposals and requests for applications

- Project officer wrote basic scientific structure for concepts and implementation. Sections written included Concept, Background and Significance, Statement of work, Independent Cost Estimates, and Evaluation Criteria.
- -"Phase II Studies of Calcium Antagonists in the Treatment of Acute Stroke." Task Order RFP-NIH-NINCDS-85-10
- -"Phase II Studies of Heparinoids for Prevention of Progression of Acute Stroke." Task Order RFP-NIH-NINCDS-85-14
- -"Evaluation of Tissue Plasminogen Activator Early in the Course of Acute Stroke." Task Order RFP-NIH-NINCDS-86-06
- -"Evaluation of Magnetic Resonance Imaging (MRI) Early in the Course of Acute Stroke." RFP-NIH-NINCDS-87-04
- -"Cerebrovascular Clinical Research Data Analysis" RFP-NIH-NINCDS-87-09
- -"Phase II-B Randomized Controlled Study of Tissue Plasminogen Activator for Acute Ischemic Stroke Clinical Center." RFP-NIH-NINDS-89-03
- -"Phase II-B Randomized Controlled Study of Tissue Plasminogen Activator for Acute Ischemic Stroke Coordinating Center." RFP-NIH-NINDS-89-04
- -"Clinical Cerebrovascular Research Data Management." RFP-NIH-NINDS-91-02
- -"Evaluation of Nimodipine to Delay Progression of Cerebrovascular Dementia" RFP-NIH-NINDS-92-16
- -"Cerebrovascular Clinical Research Coordinating Center." RFP-NIH-NINDS-94-05
- "Parkinson Disease Neuroprotection Trial Coordinating and Statistical Centers" RFA-NS-01-012
- "Parkinson Disease Neuroprotection Trial Clinical Centers" RFA-NS-02-010
- "Specialized Program of Tranlational Research in Acute Stroke" PAS-01-092

Books

Proceedings of a National Symposium on Rapid Identification and Treatment of Acute Stroke. Editors: John R. Marler, MD, Pamela Winters Jones, Marian Emr. The National Institute of Neurological Disorders and Stroke, National Institutes of Health, Bethesda, Maryland. August 1997.

Book Chapters

Brown PB; Froelich J; Roby C; Marler J. A general-purpose algorithm for histogram generation. pp. 293-319. In: Brown PB, ed. *Computer technology in neuroscience*. Washington, Hemisphere, 1976. WL 26.5 C738 1975.

Book Chapters (cont)

Marler JR, Walker MD. Clinical Research on Stroke: The NINCDS Strategy. pp. 17-21. In: Ginsberg MD, Dietrich WD, ed. *Cerebrovascular Diseases. Sixteenth Research (Princeton) Conference.* New York, Raven Press, 1989.

Levy DE, Brott T., Haley EC, Jr., Barsan WG, Olinger CP, Reed RL, Marler JR. A Safety Study of Tissue Plasminogen Activator (RT-PA) in the Hyperacute Phase of Stroke. pp. 21-28. In: Ginsberg MD, Dietrich WD, ed. *Cerebrovascular Diseases. Sixteenth Research (Princeton) Conference*. New York, Raven Press, 1989.

Marler J.R., Brott T, Haley EC, Levy D. Evaluation of Tissue Plasminogen Activator Early in the Course of Acute Ischemic Stroke. pp. 152-161. In: Hacke W., del Zoppo GJ, Hirschberg M., ed. *Thrombolytic Therapy in Acute Ischemic Stroke*. Berlin, Springer-Verlag, 1991.

Brott T, Haley EC, Levy D., Barsan W, Broderick J, Marler JR. Strategies for Early Treatment of Acute Cerebral Infarction. pp. 196-206. In: Hacke W., del Zoppo GJ, Hirschberg M., ed. *Thrombolytic Therapy in Acute Ischemic Stroke*. Berlin, Springer-Verlag, 1991.

Marler, JR. Antithrombotic and Thrombolytic Therapy for Acute Ischemic Stroke. pp. 401-414. In: Adams, HP, Jr., ed., *Handbook of Cerebrovascular Diseases*. New York, Marcel Dekker, Inc., 1993

Marler, John. Circadian Variation in Stroke Onset. Pp 163-172. In: Deedwania PC, ed., *Circadian Rhythms of Cardiovascular Disorders*. Futura Publishing Company, Inc., Armonk, NY, 1997.

Letters

1) Hacke W; Marler J. TPA in Acute Stroke, Eur Heart Journal 1997 Aug;18(8):1360; comment in Eur Heart J 1997 Nov;18(11).

Scientific Reports

- 1) Schwid SR, Marler JR. Clinical Trials Recruiting Section: A new resource for a daunting problem. Neurology. 2004 Jul 13;63(1):4-5.
- 2) Hacke W, Donnan G, Fieschi C, Kaste M, von Kummer R, Broderick JP, Brott T, Frankel M, Grotta JC, Haley EC Jr, Kwiatkowski T, Levine SR, Lewandowski C, Lu M, Lyden P, Marler JR, Patel S, Tilley BC, Albers G, Bluhmki E, Wilhelm M, Hamilton S; ATLANTIS Trials Investigators; ECASS Trials Investigators; NINDS rt-PA Study Group Investigators. Association of outcome with early stroke treatment: pooled analysis of ATLANTIS, ECASS, and NINDS rt-PA stroke trials. Lancet. 2004 Mar 6;363(9411):768-74.

- 3) Marler JR, Goldstein LB. Medicine. Stroke--tPA and the clinic. Science. 2003 Sep 19;301(5640):1677.
- 4) Hart RG, Halperin JL, Pearce LA, Anderson DC, Kronmal RA, McBride R, Nasco E, Sherman DG, Talbert RL, Marler JR; Stroke Prevention in Atrial Fibrillation Investigators. Lessons from the Stroke Prevention in Atrial Fibrillation trials. Ann Intern Med. 2003 May 20;138(10):831-8. Review.
- 5) Ravina BM, Fagan SC, Hart RG, Hovinga CA, Murphy DD, Dawson TM, Marler JR. Neuroprotective agents for clinical trials in Parkinson's disease: a systematic assessment. Neurology. 2003 Apr 22;60(8):1234-40. Review.
- 6) Adams HP Jr, Adams RJ, Brott T, del Zoppo GJ, Furlan A, Goldstein LB, Grubb RL, Higashida R, Kidwell C, Kwiatkowski TG, Marler JR, Hademenos GJ; Stroke Council of the American Stroke Association. Guidelines for the early anagement of patients with ischemic stroke: A scientific statement from the Stroke Council of the American Stroke Association. Stroke. 2003 Apr;34(4):1056-83.
- 7) Marler JR. NINDS-sponsored clinical trials in stroke: past, present, and future. Stroke. 2002 Jan;33(1):311-2.
- 8) Patel SC, Levine SR, Tilley BC, Grotta JC, Lu M, Frankel M, Haley EC Jr, Brott TG, Broderick JP, Horowitz S, Lyden PD, Lewandowski CA, Marler JR, Welch KM. "Lack of clinical significance of early ischemic changes on computed tomography in acute stroke." JAMA, 2001 Dec 12; 286(22): 2830-8.
- 9) Broderick J, Lu M, Jackson C. Pancioli A, Tilley BC, Fagan SC, Kothari R, Levine SR, Marler JR, Lyden PD, Haley EC Jr, Brott TG, Grotta JC. "Apoprotein E phenotype and the efficacy of intravenous tissue plasminogen activator in acute ischemic stroke." Ann Neurol 2001 Jun; 49(6):736-44.
- 10) Hademenos GJ, Alberts MJ, Awad I, Mayberg M, Shepard T, Jagoda A, Latchaw RE, Todd HW, Viste K, Starke R, Girgus M, Marler J, Emr M, Hart N. "Advances in the genetics of cerebrovascular disease and stroke." Neurology, 2001 Apr 24;56(8):997-1008.
- 11) Kothari RU, Hacke W, Brott T, Dykstra EH, Furlan A, Koroshetz W, Marler J, Sayre MR. "Cardiopulmonary resuscitation and emergency cardiovascular care. Stroke." Ann Emerg Med. 2001 Apr;37(4 Suppl):S137-44. No abstract available.
- 12) John R. Marler, MD, Barbara C. Tilley, PhD, Mei Lu, PhD, Thomas G. Brott, MD, Patrick C. Lyden, MD, James C. Grotta, MD, Joseph P. Broderick, MD, Steven R. Levine, MD, Michael P. Frankel, MD, Stephen H. Horowitz, MD, E. Clarke Haley, MD, and Thomas P. Kwiatkowski, MD for the NINDS rt-PA Stroke Study Group. "Early Stroke Treatment Associated With Better Outcome: The NINDS TPA Stroke Study." Neurology. 2000; Dec 12; 55(11):1649-55.
- 13) Sinclair R, Marler JR. "EMD & acute stroke response." J Emerg Med Serv JEMS. 2000 Oct;25(10):28-9.

- 14) Alberts MJ, Hademenos G, Latchaw RE, Jagoda A, Marler JR, Mayberg MR, Starke RD, Todd HW, Viste KM, Girgus M, Shephard T, Emr M, Shwayder P, Walker MD. Related Articles "Recommendations for the establishment of primary stroke centers. Brain Attack Coalition." JAMA. 2000 Jun 21;283(23):3102-9.
- 15) Hademenos GJ, Alberts MJ, Awad I, Mayberg M, Shepard T, Jagoda A, Latchaw RE, Todd HW, Viste K, Starke R, Girgus MS, Marler J, Emr M, Hart N. "Advances in the genetics of cerebrovascular disease and stroke." Neurology. 2001 Apr 24;56(8):997-1008.
- 16) Broderick JP, Lu M, Kothari R, Levine SR, Lyden PD, Haley EC, Brott TG, Grotta J, Tilley BC, Marler JR, Frankel M. "Finding the most powerful measures of the effectiveness of tissue plasminogen activator in the NINDS tPA stroke trial." Stroke 2000 Oct;31(10):2335-41.
- 17) Woo D, Broderick JP, Kothari RU, Lu M, Brott T, Lyden PD, Marler JR, Grotta JC. "Does the National Institutes of Health Stroke Scale favor left hemisphere strokes? NINDS t-PA Stroke Study Group." Stroke. 1999 Nov;30(11):2355-9.
- 18) Hacke W, Brott T, Caplan L, Meier D, Fieschi C, von Kummer R, Donnan G, Heiss WD, Wahlgren NG, Spranger M, Boysen G, Marler JR. "Thrombolysis in acute ischemic stroke: controlled trials and clinical experience." Neurology. 1999;53(7 Suppl 4):S3-14.
- 19) Grotta JC, Chiu D, Lu M, Patel S, Levine SR, Tilley BC, Brott TG, Haley EC Jr, Lyden PD, Kothari R, Frankel M, Lewandowski CA, Libman R, Kwiatkowski T, Broderick JP, Marler JR, Corrigan J, Huff S, Mitsias P, Talati S, Tanne D. Agreement and variability in the interpretation of early CT changes in stroke patients qualifying for intravenous rtPA therapy. Stroke 1999 Aug;30(8):1528-33.
- 20) Kwiatkowski, Libman RB, Frankel M, Tilley BC, Morgenstern LB, Lu M, Broderick JP, Lewandowski CA, Marler JR, Levine SR, Brott T. "Effects of tissue plasminogen activator for acute ischemic stroke at one year. National Institute of Neurological Disorders and Stroke Recombinant Tissue Plasminogen Activator Stroke Study Group. N Engl J Med 1999 Jun 10;340(23):1781-7.
- 21) Marler JR, "Early stroke diagnosis saves time" [editorial; comment] Ann Emerg Med, Ann Emerg Med 1999 Apr;33(4):450-1.
- 22) Brott T, Lu M, Kothari R, Fagan SC, Frankel M, Grotta JC, Broderick J, Kwiatkowski T, Lewandowski C, Haley EC, Marler JR, Tilley BC. Hypertension and its treatment in the NINDS rt-PA Stroke Trial. Stroke 1998 Aug;29(8):1504-9
- 23) Marler JR, Walker MD. "Progress in acute stroke research" [editorial; comment]. Stroke 1998 Aug;29(8):1491-2.
- 24) Fagan SC, Morgenstern LB, Petitta A, Ward RE, Tilley BC, Marler JR, Leving SR, Broderick JP, Kwiatkowski TG, Frankel M, Brott TG, Walker MD. Cost effectiveness of tissue plasminogen activator for acute ischemic stroke. NINDS rt-PA Stroke Study Group. Neurology 1998 Apr;50(4):883-890.

- 25) Lyden PD; Grotta JC; Levine SR; Marler JR; Frankel MR; Brott TG. Intravenous thrombolysis for acute stroke. Neurology 1997 Jul;49(1):14-20.
- 26) Pessin MS, Adams HP Jr, Adams RJ, Fisher M, Furlan AJ, Hacke W, Haley EC, Hazinski MF, Helgason CM, Higashida RT, Koroshetz W, Marler JR, Ornato JP. American Heart Association Prevention Conference IV. Prevention and Rehabilitation of Stroke. Acute interventions. Storke 1997 Jul;28(7)1518-1521.
- 27) Adams HP Jr, Brott TG, Furlan AY, Gomez CR, Grotta J, Helgason CM, Kwiatkowski T, Lyden PD, Marler JR, Torner J, Feinberg W, Mayberg M, Thies W. Guidelines for thrombolytic therapy for acute stroke: a supplement to the guidelines for the management of patient with acute ischemic stroke. A statement for healthcare professionals from a Special Writing Group of the Stroke Council, American Heart Association. Circulation 1996 Sep 1;94(5):1167-1174.
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